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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,129	01/28/2004	Yoshiyuki Shibahara	HITA.0500	2247
75	590 11/02/2005		EXAM	INER
REED SMITH LLP			COX, CASSANDRA F	
Suite 1400 3110 Fairview Park Drive			ART UNIT	PAPER NUMBER
Falls Church, VA 22042			2816	
		DATE MAILED: 11/02/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action Commons	10/765,129	SHIBAHARA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Cassandra Cox	2816			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
 1) Responsive to communication(s) filed on <u>09 At</u> 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
 4) Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) 1,4 and 11 is/are withdrawn from consideration. 5) Claim(s) 2,5-10 and 13-20 is/are allowed. 6) Claim(s) 3,12 and 21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9)☐ The specification is objected to by the Examine 10)☐ The drawing(s) filed on 28 January 2004 is/are: Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the order of the oath or declaration is objected to by the Examine 10.	a) \square accepted or b) \square objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 3, 12, and 21 are rejected under 35 U.S.C. 112, second paragraph, as

being indefinite for failing to particularly point out and distinctly claim the subject matter

which applicant regards as the invention.

Claims 3 and 12 are indefinite because the claims are misdescriptive. The claims recite a loop bandwidth selector as a separate element. It appears to the examiner from review of the specification, drawings, and further clarification by attorney Marquez on 02/03/05 that the loop bandwidth selector is not a separate element, but a function of the combination of the charge pump and the control circuit. Therefore, the recitation of the phase locked loop further comprising "a loop bandwidth selector" is redundant. It appears to the examiner that the applicant is trying to further describe a function of the control circuit and the charge pump. The claims should be rewritten to more clearly show that the control circuit and charge pump actually change the loop bandwidth (see applicant's specification page 14, lines 11-12 and page 15, lines 1-5). Correction or clarification is required.

Claim 21 is also rejected due to the limitations of the base claim and any intervening claims.

Application/Control Number: 10/765,129 Page 3

Art Unit: 2816

Allowable Subject Matter

3. Claim 3 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

- 4. Claims 2, 5-10, and 13-20 are allowed.
- 5. Claims 12 and 21 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- The following is an examiner's statement of reasons for allowance: Claims 2, 5-10, and 13-20 (and claim 3 if amended to overcome the 112 rejection) are allowed because the closest prior art of record fails to disclose a circuit as shown in Figure 4 further comprising a controller (15) which adjusts a phase error between the first modulator (MD1) and the second modulator (MD2) in combination with the rest of the limitations of the base claims and any intervening claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. The following is a statement of reasons for the indication of allowable subject matter: Claims 12 and 21 would be allowable because the closest prior art of record fails to disclose a circuit as shown in Figure 13 wherein the circuit also comprises an amplifier (AMP) and a control circuit to provide a loop bandwidth control signal (CUR) an On/Off signal (PAON), a reference signal (REF), and a baseband signal (TX_DATA)

Application/Control Number: 10/765,129

Art Unit: 2816

in combination with the rest of the limitations of the base claims and any intervening

claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Cassandra Cox whose telephone number is 571-272-

1741. The examiner can normally be reached on Monday-Thursday from 7:00 AM to

4:30 PM and on alternate Fridays from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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CC

October 29, 2005

Page 4

SUPERVISORY PATENT EXAMINER

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